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1. Chemicals and Identification

1.1 products validation

product name Sn60Pb38Cu2

descriptions Lead solder

identifying information unknown

1.2 recommended and restrictions on use

1.2.1 recommended soldering for electronic parts and components

1.2.2 restrictions unknown

1.3 Supplier information

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1.4Emergency calls 1.4Emergency calls

2. Hazards summarizing

2.1 classification of substances and mixture

2.1.1 GHS hazards classification

physical hazards Unclassified

health hazards	Inhalation hazard	category 1
	Respiratory sensitization	category 1B
	Reproductive toxicity	category 2
	Specific target organ system toxicity	
	--repeating contact	category 2

environmental hazards	Hazards of Aquatic environment	category 2
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2.2 Label element

pictogram



Warning words

Danger

hazard statement

Inhalation and if swallowed
May cause sensitization by skin contact
Vapours may cause drowsiness and dizziness

Precautionary statement

precautionary measure

Stay away from high temperature
Far away from strong acid and alkali
Don't inhale smoke and vapour
Washing hands thoroughly after handling.
Don't eat and drink when soldering
wear gloves/goggles/face guard.

accident response

After swallowing, induce vomiting if person is conscious, seek medical help.
After skin contact, immediately wash with soap and rinse.
After inhalation: supply fresh air, keep breathing smooth.
Of fire, use dry chemical, carbon dioxide, sandy soil .

storage

Stored in dry shade

disposal

According to local regulations

3. composition information

material or mixture:

mixture

Composition:

chemical name	CAS	(%) Content
tin	7440-31-5	59-61
lead	7439-92-1	37-39
copper	7440-50-8	1.5-2.5
rosin	65997-06-0	≤2.5

4. first-aid measures**4.1 summarize****inhalation**

Supply fresh air, keep breathing smooth. If difficult in breath, oxygen; if respiratory arrest, artificial respiration then hospitalize.

skin contact

immediately wash with soap and rinse

eye contact

opened eye lip, Rinse under running water, see doctor.

ingestion

If person is conscious, induce vomiting, see medical help.

4.2 acute and late effects

Inhalation may damage respiratory tract

4.3 First-aid personnel protection

Let medical staffs know involved matter, to take measures to protect themselves.

4.4 Special tips for doctor

Provide general measures, according to the treatment of symptoms

5. fire-fighting measures**5.1 out-fire method and extinguishing agent**

dry chemical, carbon dioxide, sandy soil

improper

Once-through water

5.2 special risk

Heated to break down, or under the condition of fire, will release carbon monoxide, carbon dioxide, aliphatic aldehydes.

6. Accidental release measure

6.1 personal precautions	Ensure adequate ventilation, Avoiding contact with eye and skin, and inhalation
6.2 environmental precautions	Do not allow product to reach sewage or any water course
6.3 Leakage take in and cleaning method	No leak
6.4 Secondary hazard prevention measures	No special advice.

7. handling and storage

7.1 handling

technical measures	No special advice.
partial or full ventilation	Adequate ventilation
precautionary measures	Develop healthy habit. Avoid contact with skin and eyes. Washing after handling, equipped personal protection device. Washing hands and avoiding inhalation.
operation instruction	Introduce personal protection from SDS part 8.

7.2 safe storage

technical measures	Far away from fire source, strong acid and alkali
condition	Dry and cool space
should be away	strong acid and alkali
packing materials	no special advice

8. contact controls and personal protection

8.1 contact controls

8.1.1 allowed concentration	unknown
8.1.2 Eng control way	According to good industrial hygiene and safety practice, wash hands after handling or in break.

8.2 personal protection device

respiratory system protection	Avoid inhalation of steam, please wear mask
eye protection	May flash or contact eyes, please wear glass
skin and body protection	please in anti-static overalls
sanitary measures	Before break and after handling washing hands immediately. Operation based on good industrial hygiene and safety practice.

9. physical and chemical properties

9.1 general information

apperance	slivery solid
physical state	solid
shape	solid wire
smell	tasteless
PH value	unknown
melting and freezing point	195 / 183 °C
boiling point, initial boiling point and range flash point	unknown
autoignition temperature	unknown
(%) : combustion limits-floor level	unknown
(%) : upper level	unknown

(%): explosion limits-floor level	unknown
(%): explosion limits-upper level	unknown
density	8.5 g/cm ³ (20 °C)
solubleness	insoluble in water

9.2 other dates

solubility	unknown
smell threshold value	unknown
evaporation rate	unknown
ignitability(solid, gas)	unknown
surface tension	unknown
light temperature	unknown
viscosity	unknown
molecular formula	unknown
molecular weight	Unknown

10. stability and reactivity

10.1 stability	Under the condition of normal operation and storage stability
10.2 The possibility of risk response	No hazardous reaction under normal use
10.3 should be avoided	High temperature
10.4 incompatible substances	Strong acid/alkali
10.5 harmful decomposition products	Carbonic oxide, carbon dioxide

11. toxicological information

11.1 Toxicokinetics, metabolism and distribution	unknown
11.2 toxicological information	
acute toxicity	
LD50: per oral, rat	5mg/kg (IUCRID)
LD50: per skin, hare	unknown
LC50: inhalation, rat	40000 ppm 4 hr. (RTECS)
skin irritation or corrosion	unclassified
eye irritation or corrosion	unclassified
respiration or skin sensibility	unclassified
germ cell mutagenicity	unclassified
carcinogenicity	unclassified
reproduction toxicity	unclassified
Specific target organ system toxicity- One-off contact	unclassified
Specific target organ system toxicity- Repeating contact	unclassified
inhalation risk	Unclassified

12. ecology information

12.1 ecotoxicity

fish	unknown
daphnia	unknown
algae	unknown

12.2 durability and degradability unknown

12.3 possible biological accumulation unknown

12.4 mobility in soil unknown

12.5 other harmful effects unknown

13. abandon dispose

13.1 residual waste According to local regulation

13.2 polluted package unknown

13.local disposal regulation unknown

14. transport information

	(ADR/RID) road transportation	(IMDG) ocean carriage	(ICAO/IATA) air transportation
UN dangerous cargos No.	unknown	unknown	unknown
UN carriage name	unknown	unknown	unknown
UN perniciousness classify	unknown	unknown	unknown
packing group	unknown	unknown	unknown
marine pollutant	no	no	no
Special precautionary measures	See 2.2	See 2.2	See 2.2

15. regulation information

15.1special regulation/legislation of safety, health and environmental for materials and mixtures

if recorded by chemical catalogues of other countries

IECSC: No recorded

EINECS: No recorded

EPA TSCA: No recorded

DSL/NDSL: No recorded

GB12268-2012: hazardous articles list No recorded

Below laws, regulations and standards, make relevant stipulation for safe handling, storage, transportation, loading and unloading, classification and mark of chemicals.

the production safety law of the people's republic of china

the occupational disease prevention law of the people's republic of china
the environmental protection law of the people's republic of china
Hazardous chemical materials safety management regulation
Safety production license

15.2 Downstream consumption attention

Dispose should be accord with relevant law and regulation

16. other information

16.1 change explain

According to standard GB/T16483-2008 <the chemical safety data sheet content and project order>, revised the former version SDS

16.2 training suggestion: No

16.3 detailed information

All information based on our current date, the SDS (the chemical safety data sheet) is only for this product.

16.4 reader attention

Owner of enterprise can only be used as beneficial supplement of other information obtained, and should be judged to this data properly. Be sure of moderate use for this product, guarantee health and safety of the workers. This data does not provide a guarantee, if there is any use behavior, which violate this SDS or used with other products and programs, the consequence shall be borne by the users themselves.

16.5 abbr.

ADR: About international transport of dangerous goods road European protocol
IMDG: International maritime transport of dangerous goods rules.
EINECS: European Inventory of Existing Chemical Substance
IATA: International Air Transport Association
ICAO-TI: (ICAO) International Civil Aviation Organization
CAS: chemical abstracts No.
LC50: lethal concentration 50%
EC50: effect concentration 50%
LD50: lethal dose of 50%

The materials safety data sheet written based on optimum information of security and proper usage. But, we can't guarantee the timeliness and other express or hint information. To these data, our company do not bear any duty from the employ. The user should confirm the best information for their special usage after own research. Before use this product, every user should read this data carefully. If need more information for correct evaluation, please contact with our company.